HIGHER SECONDARY PRACTICAL EXAMINATION, March 2017

COMPUTER APPLICATIONS (Commerce) Max. Score: 40

HSE II

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Instructions to the candidates:

Two questions are circled or tick marked in the following list. The first is from C++ programming area and the second is from either HTML/JawaScript or SQL.

• Write down the question and the required program/code/queries in the answer sheet

within one hour.

- The answers are to be submitted to the examiner for verification. These programs should be developed in computer after the consent of the examiner and the output should be shown to the examiner.
- Viva voce will be conducted based on the given practical questions.
 - The score distribution will be as follows:
 - (a) C++ Program Logic (Written)
 - (b) Debugging Skills (Error correction and Output)
 - (c) Proper HTML tags and attributes (Script if required) /
 - Proper SQL commands, clauses, operators (Written) (d) Debugging Skills (Error correction and Output)
 - (e) Practical Log Book

10 Score 6 Score 10 Scores

6 Scores

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Time: 3 Hours

4 Scores (19 C++ Programs, 10 Web applications and 5 SQL) 4 Scores (f) Viva Voce 40 Score Total

Part A - Programming in C++

1.) Input a number and check whether it is positive, negative or zero,

- 2. Input the principal amount, type of account (C for current a/c or S for SB a/c) and number of years, and display the amount of interest. Rate of interest for current a/c is 8.5% and that of SB a/c is 6.5%.
- 3. Find the area of a rectangle, a circle and a triangle. Use switch statement for selecting an option from a menu.
- 4. Find the sum of the digits of an integer number.

- 5. Display the multiplication table of a number having 12 rows.
- 6. Find the sum of the squares of the first N natural numbers without using any formula.
- 7. Find the length of a string without using strlen() function.
- 8. Input the price of a set of higher secondary textbooks and find the highest and lowest prices.
- 9. Define separate functions to return simple interest and compound interest by accepting principle amount, time and rate of interest as arguments.

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10. Define a function to swap two variables. Using this function, interchange the values of three variables. E.g. $A \rightarrow B \rightarrow C \rightarrow A$.

11. Input a digit and display the corresponding word using switces: statement.

12. Find the Gattorial of a number with the help of a user-defined function. 13. Input a number and check whether it is palindrome or not.

14. Input a number and wheck whether it is prime of not.

15. Nor law the first M Wenn's of Fibonacci series.

16. Hour the Reights of 10 students and find the average height.

Values

17. Input three numbers and find the smallest and the second smallest.

13. Input the price of a set of higher secondary textbooks and find the highest and

lowest prices.
19. Input two years (e.g. 1000, 2000) and display all leap years in between them.
20. Define separate functions to return simple interest and compound interest by accepting principle amount, time and rate of interest as arguments.

Part B - Web Applications

1. Design a simple and attractive webpage for Kerdla Tourism. It should abritain features like background colour/image, headings, text formatiling and filest lags,

inages, eica

2. Design a webpage as shown below using appropriate list tags.

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List of Nobel Laureates from (odia)

Rebindra Noth Tegore .

He was the first to get Nobel Prize from India. He received prize in literature in 1931. He got Nobel Prize for his orthopics of poens

"Gitanjali". OV Raman

He got Nobel for Physics in 1930. He received Nobel Prize for his contribution called Raman Effect.

Nother Teresa

Mother Teresa who founded Missionaries of Charity which is active in more than 100 countries received Nobel Prize in 1979.

Amartya Jen

Amartya Sea waş awarded Nobel Prize in 1998 in Economics. He has

made contributions to welfare economics, social choice theory etc.

Kaiton Satyarthi

Heis archild right activist who founded "Bachpan BachaerAndolan"

in 1980. He shared Nobël prize for peace in 2014.

Design a simple webpage about your school. Create another webpage named address htm containing the school address. Give links from school page to

address. him

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4. Design the following table using HTML:

Class	Strength		
	Science	Commerce	Humanities
Plus One	49	50	48
Pius Two	50	50	49

5. Design a web page containing a table as shown below:

Speed Limits in Kerala

Within

Venicies .	Near School (In Km/hour)	Corporation/ Municipality (In Km/hour)	in other roads (In Km/hour)
Motor Cycle	25	40	50
Motor Car	25	40	70
Light motor vehicles		40·	60
Heavy motor vehicles		35	60

- 6. Design a webpage containing frames that divide the screen vertically in the ratio 50:50. Design two web pages one containing the list of Indian cricket team members and the second page containing a list of Indian football team members.
- 7. A webpage should contain one text box for entering a text. There should be two buttons labeled "To Upper Case" and "To Lower Case". On clicking each button, the content in the text box should be converted to upper case or lower case accordingly. Write the required JavaScript for these operations.
- 8. Develop a webpage to find the capital of Indian States. The page should contain a dropdown list from which the user can select a state. On clicking the show button, the web page should display the capital of the state in another text box. Write the required JavaScript.
- 9. Develop a webpage with two text boxes and a button labeled "Show". The user can enter a number in the first text box. On clicking the button, the second text box should display the sum of all numbers up to the given number. Write the required JavaScript.
- 10. Develop a webpage with two text boxes and a button labelled "SHOW". The user can enter a number in the first text box. On clicking the button, the second text box should display whether the number is prime or not. Write the required javascript.
 - 11. Design a simple webpage as shown below:

Client Login Enter User Name Enter your Password Submit Clear

- 12. Design an HTML form to accept the Curriculum Vita of a job applicant. The form should provide facility to accept name, address in multiple lines, gender using option button, nationality using a list box and hobbies using check boxes. The form should
 - provide buttons to save and clear the contents of text boxes.



13. Design a webpage showing tourist destinations in Kerala as shown below :

Department of Tourism Government of Kerala

Fourist Destinations in Kernia

b. Muzhuppilangad

. Kacpad

2. Hill Stations i. Munnar

ii. Wayanad iii. Gavi

a. Iravikulam b. Muthanga

C. Kadaiumodi

Part C - SQL

The states of real states to with the following fields and insert at least 5 records into the table except for the column Total.

Rolf Number Integer Primary key Name Varchar (25)

Batch Varchar (15)

Marké integer Marké integer Marké integer Marké integer Total integer

a. Uppeade the column Total with the sum of Mark1, Mark2 and Mark3.

a that had a subship in Commerce batch.

Display the name and total marks of students who are failed (Total < 90).
 Display the name and batch of those students who scored 90 or more in

Markt and Mark2.

Delete the student who scored below 30 in Mark3.

2. Crease a table Employee with the following fields and insert at least 5 records into the table except the column Gross_pay and DA.

Emploide Integer Primary key

Emp_name Varchar (20) Designation Varchar (25) Department Varchar (25) Basic Decimal (10,2) DA Decimal (10,2) Gross_pay Decimal (10,2) a) Update DA with 75% of Basic.

b) Display the details of employees in Purchase, Sales and HR departments.
 c) Update the Gross_pay with the sum of Basic and DA.

d) Display the details of employee with gross pay below 10,000 at Delete all the "clerks" from the table.

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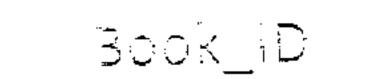
Create a table Stock, which stores daily sales of items in shop, with the following 3. fields and insert at least 10 records into the table. Primary key

Integer Item_code Varchar (20) Item_name Varchar (5) Manufacturer_Code Integer

- Qty Decimal (10,2) Unit Price Date Exp_Date
- a. Display the details of items which expire after 31/3/2016 in the order of
- expiry date.
- b. Find the number of items manufactured by the company "SATA".
- Remove the items which expire between 31/12/2015 and 01/06/2016. С. d. Add a new column Reorder in the table to store the reorder level of items.
- e. Update the column Reorder with value obtained by deducting 10% of the
- current stock.
- Create a table Book with the following fields and insert at least 5 records into the 4

Integer

table.







Varchar (20) Book Name Varchar (25) Author_Name Varchar (25) Pub Name **Decimal** (10,2) Price

- a. Create a view containing the details of books published by SCERT.
- Display the average price of books published by each publisher. b.
- Display the details of book with the highest price. С.
- Display the publisher and number of books of each publisher in the d.
 - descending order of the count.
- Display the title, price and price after a discount of 10% in the alphabetical е. order of book title.
- Create a table Bank with the following fields and insert at least 5 records into the 5-04 - 1-0
 - table.

Primary key Integer Acc_No Varchar (20) Acc_Name Varchar (25) Branch_Name Varchar (10) Acc_Type Decimal (10,2)

Amount

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Display the account details of "Savings Account" in Kodungallur branch. а. b. Change the branch name "Trivandrum" to "Thiruvananthapuram" Display the details of customers in Thiruvananthapuram, Ernakulam and С.

List the details customers in Thrissur branch having a minimum balance of Rs. 5000.

Delete all the current accounts in Mahe branch. e.

Kozhikode.

а.

Create Student table (given in Qn. No. 1), insert at least 5 records and write SQL 6. statements for the following:

- a. Update the column Total with the sum of Mark1, Mark2 and Mark3.
- b. List the details of students in Science batch in the ascending order of their names.
- Display the highest Total in Humanities batch. С.
- d. List the details of student who passed (Subject minimum is 30 and aggregate minimum is 90) the course.
- e. Delete the students of Commerce batch who failed in any one subject.
- 7. Create Sook table (given in Qn. No. 4), insert at least 5 records and write SQL statements for the following:
 - Display the details of books with price 100 or more. a.
 - b. Display the Name of all the books published by SCERT.
 - c. Increase the price of the books by 10% which are published by SCERT.
 - d. List the details of books, the titles of which end with word "Programming".
 - e. Remove all the books written by "Balaguruswamy".

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